

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934758

Luminaire Tested: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934758
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

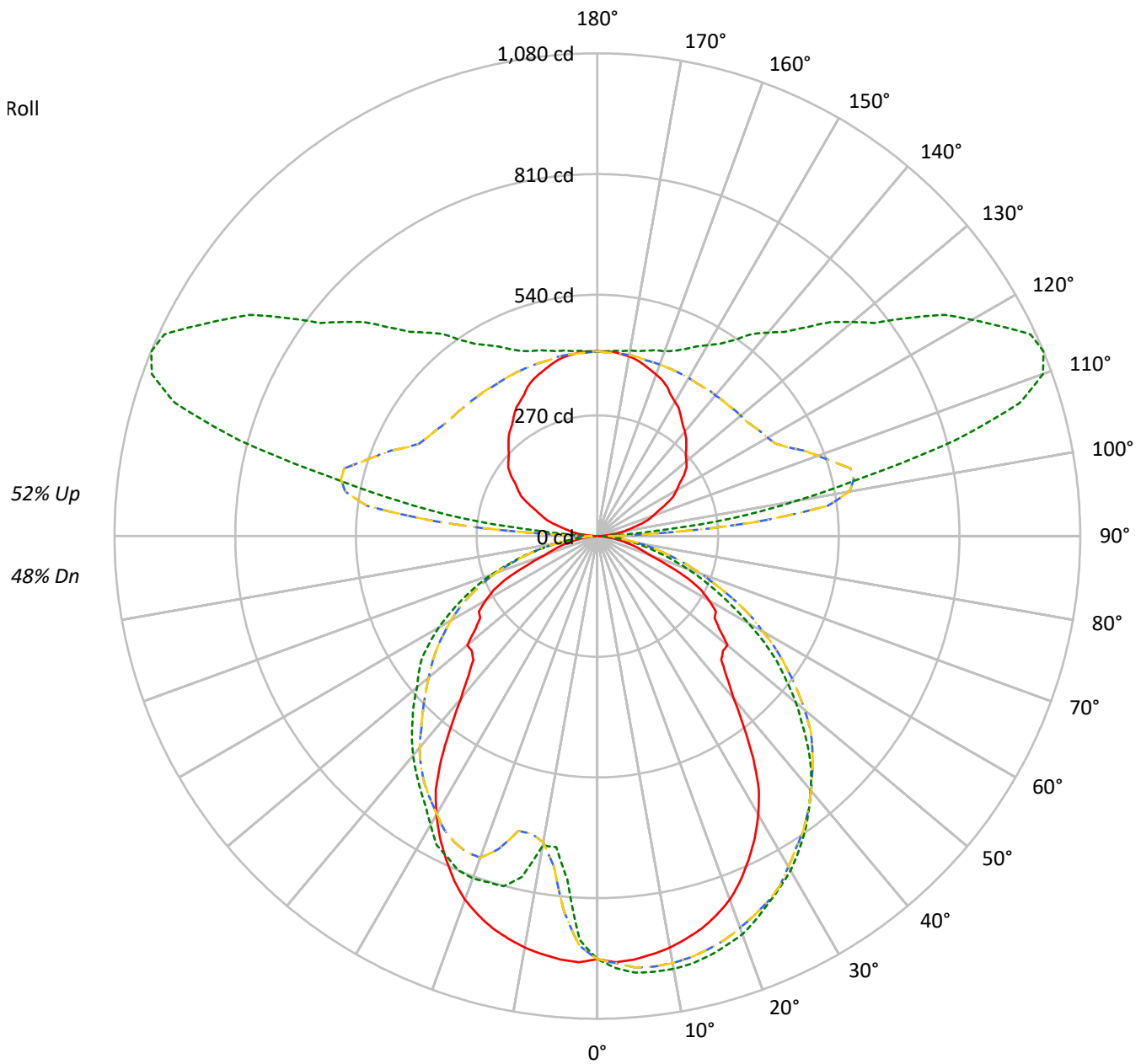
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5136.4 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8782	8782	8782	8782
5°	8838	8866	8838	6971
10°	8769	8733	8769	6243
15°	8664	8544	8664	7134
20°	8473	8319	8473	7149
25°	8092	7992	8092	6997
30°	7604	7721	7604	6665
35°	6769	7378	6769	6300
40°	5631	6974	5631	6023
45°	5021	6501	5021	5706
50°	5323	5937	5323	5387
55°	4994	5329	4994	5203
60°	5128	4527	5128	4765
65°	4626	3740	4626	4183
70°	3181	2981	3181	3505
75°	2761	2204	2761	2638
80°	2181	1457	2181	1586
85°	1184	771	1184	655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	1.7
10°-20°	242.6	4.7
20°-30°	375.0	7.3
30°-40°	447.6	8.7
40°-50°	450.3	8.8
50°-60°	391.8	7.6
60°-70°	277.8	5.4
70°-80°	146.9	2.9
80°-90°	38.2	0.7
90°-100°	201.6	3.9
100°-110°	530.0	10.3
110°-120°	549.5	10.7
120°-130°	440.8	8.6
130°-140°	345.9	6.7
140°-150°	265.5	5.2
150°-160°	191.2	3.7
160°-170°	117.0	2.3
170°-180°	39.5	0.8
0°-30°	703.0	13.7
0°-40°	1150.6	22.4
0°-60°	1992.7	38.8
0°-90°	2455.6	47.8
90°-120°	1281.1	24.9
90°-150°	2333.1	45.4
90°-180°	2681.0	52.2
0°-180°	5136.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	946	946	946	946	946	
5°	951	980	951	771	951	90
15°	908	972	908	811	908	255
25°	800	906	800	793	800	367
35°	608	809	608	690	608	376
45°	392	666	392	585	392	314
55°	320	492	320	480	320	294
65°	222	296	222	331	222	212
75°	84	141	84	168	84	89
85°	14	36	14	30	14	19
90°	3	11	3	11	3	3
95°	27	122	27	122	27	30
105°	95	830	95	830	95	101
115°	170	1069	170	1069	170	168
125°	236	851	236	851	236	209
135°	281	660	281	660	281	218
145°	326	536	326	536	326	204
155°	369	461	369	461	369	169
165°	398	430	398	430	398	112
175°	414	416	414	416	414	39
180°	414	414	414	414	414	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	954.5	954.5	960.0	961.7	961.7	959.1	956.4	959.1	967.1	969.8	968.9
5°	950.9	958.2	968.0	969.8	971.6	970.7	968.9	970.7	979.7	981.4	982.3
7.5°	943.7	957.3	969.8	972.5	975.2	972.5	971.6	973.4	982.3	984.1	984.1
10°	934.8	953.6	968.0	969.8	972.5	969.8	969.8	973.4	982.3	984.1	985.0
12.5°	922.3	948.2	961.7	963.5	967.1	966.2	965.3	968.9	977.9	979.7	979.7
15°	907.9	938.4	950.9	952.7	959.1	957.3	957.3	960.8	970.7	973.4	972.5
17.5°	888.2	925.8	940.2	942.9	947.3	946.4	947.3	950.9	960.0	961.7	962.6
20°	865.9	908.8	925.8	928.5	933.0	933.0	933.0	937.5	946.4	950.0	950.0
22.5°	835.4	890.9	908.8	910.6	916.0	916.0	917.8	924.1	932.1	933.0	933.0
25°	799.6	871.2	886.4	891.8	897.2	899.9	902.6	906.1	908.8	907.9	908.8
27.5°	762.0	846.2	865.9	869.4	876.6	879.3	882.9	883.8	884.7	887.3	885.6
30°	719.9	811.2	840.8	844.4	856.0	857.8	854.2	856.0	860.5	862.3	864.1
32.5°	672.5	759.3	814.8	822.9	833.6	828.3	827.4	830.0	837.2	837.2	839.0
35°	608.0	719.0	790.7	797.8	805.9	799.6	803.2	804.1	808.6	811.2	810.3
37.5°	537.3	684.1	765.6	771.0	777.2	769.2	774.5	777.2	780.8	779.0	779.0
40°	474.6	629.5	736.0	739.6	745.0	738.7	744.1	745.9	747.7	745.9	745.0
42.5°	428.0	569.5	704.7	709.2	705.6	710.1	711.9	715.4	712.8	709.2	709.2
45°	392.2	553.4	670.7	676.1	670.7	677.8	680.5	680.5	672.5	670.7	669.8
47.5°	380.6	521.2	636.7	636.7	634.0	642.9	647.4	641.1	633.1	630.4	630.4
50°	379.7	485.3	590.1	586.5	599.1	609.8	605.3	599.1	592.8	582.9	582.9
52.5°	344.8	441.5	530.1	543.5	563.2	569.5	562.3	556.1	545.3	540.9	537.3
55°	319.7	395.8	475.5	502.4	523.0	531.0	517.6	511.3	495.2	492.5	490.7
57.5°	314.3	329.6	425.4	459.4	484.5	483.6	475.5	463.9	450.4	447.7	446.9
60°	288.3	238.2	371.6	411.9	437.9	435.2	428.0	417.3	404.8	403.0	401.2
62.5°	261.4	172.8	310.7	356.4	393.1	392.2	386.0	369.9	360.9	356.4	352.8
65°	222.0	145.0	221.1	296.3	349.3	351.1	337.6	326.0	316.0	310.7	309.8
67.5°	169.2	118.2	149.5	247.1	307.1	305.3	288.3	282.9	270.4	267.7	262.3
70°	125.3	78.8	103.9	200.5	265.9	261.4	248.0	241.7	230.1	223.8	220.2
72.5°	103.9	63.6	76.1	155.8	223.8	218.5	206.8	199.7	189.8	184.4	180.9
75°	84.2	67.1	58.2	115.5	181.7	178.2	167.4	160.3	152.2	145.0	145.9
77.5°	61.8	62.7	46.6	85.1	144.1	138.8	132.5	123.6	120.0	112.8	112.8
80°	46.6	49.2	34.9	58.2	103.9	103.9	98.5	92.2	85.9	82.4	82.4
82.5°	31.3	31.3	26.0	36.7	70.7	68.0	64.5	62.7	59.1	57.3	57.3
85°	14.3	17.9	16.1	22.4	38.5	40.3	40.3	38.5	37.6	35.8	36.7
87.5°	4.5	8.1	9.8	12.5	19.7	20.6	21.5	21.5	21.5	22.4	22.4
90°	2.8	5.0	7.3	7.8	12.3	18.2	21.1	18.8	14.1	10.6	10.6
92.5°	11.1	30.0	48.8	53.5	75.3	104.3	118.8	104.1	74.8	52.7	50.7
95°	26.7	61.2	95.8	104.4	185.3	293.2	347.2	309.8	235.0	179.0	172.6
97.5°	46.1	76.5	107.0	114.6	249.6	429.6	519.5	495.9	448.7	413.3	401.2
100°	61.1	88.6	116.3	123.2	273.0	472.7	572.6	574.3	577.7	580.3	565.9
102.5°	73.9	99.6	125.3	131.8	283.7	486.3	587.6	617.7	677.8	723.0	710.6
105°	95.4	117.3	139.1	144.6	291.7	487.9	585.9	653.4	788.3	889.5	882.9
107.5°	117.6	138.1	158.4	163.5	293.2	466.1	552.6	646.7	834.9	976.1	977.7
110°	132.7	151.0	169.5	174.0	291.0	446.9	524.8	630.0	840.4	998.3	1005.2



TEST NUMBER: P934758

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.4	164.9	182.4	186.8	291.1	430.1	499.6	607.3	822.6	984.1	994.8
115°	169.6	185.7	201.9	205.9	293.8	410.8	469.3	573.1	780.5	936.1	950.8
117.5°	191.5	206.2	220.9	224.5	299.2	398.7	448.5	542.1	729.3	869.8	886.1
120°	204.3	218.1	231.9	235.4	303.6	394.7	440.1	525.7	696.8	825.1	841.0
122.5°	216.8	230.7	244.6	248.1	310.0	392.5	433.8	510.8	664.9	780.4	796.1
125°	235.9	248.6	261.3	264.5	318.6	390.8	426.9	492.3	623.2	721.4	735.8
127.5°	251.5	264.3	277.1	280.3	327.2	389.8	421.1	477.3	589.7	673.9	686.1
130°	259.8	273.6	287.4	290.9	333.5	390.4	418.8	468.9	568.9	643.9	655.1
132.5°	268.4	282.2	296.0	299.5	338.6	390.8	416.9	461.6	551.2	618.4	628.4
135°	281.1	293.7	306.3	309.4	344.2	390.4	413.5	451.1	526.1	582.3	591.0
137.5°	294.2	306.6	319.1	322.2	352.5	392.9	413.0	444.7	508.1	555.6	562.7
140°	305.0	316.5	328.0	330.8	357.6	393.2	411.0	438.4	493.1	534.2	540.9
142.5°	313.4	323.9	334.5	337.2	361.8	394.7	411.0	435.1	483.2	519.3	525.0
145°	326.1	335.4	344.6	346.9	367.3	394.7	408.3	428.0	467.3	496.8	501.1
147.5°	338.9	347.8	356.9	359.1	375.5	397.3	408.3	423.8	454.7	477.9	481.5
150°	347.2	355.3	363.5	365.6	379.8	398.8	408.3	421.3	447.5	467.1	469.9
152.5°	355.8	362.0	368.2	369.7	382.6	399.7	408.3	419.5	441.7	458.5	460.6
155°	368.6	373.2	377.6	378.8	388.7	401.7	408.3	417.1	434.9	448.2	449.6
157.5°	378.0	382.5	387.0	388.0	394.7	403.8	408.3	415.2	428.9	439.3	440.3
160°	384.4	387.8	391.3	392.1	397.5	404.7	408.3	414.2	426.1	434.9	435.5
162.5°	390.8	393.4	396.0	396.6	400.5	405.7	408.3	413.3	423.2	430.7	431.3
165°	397.7	400.0	402.4	403.0	404.8	407.1	408.3	411.8	419.0	424.4	425.0
167.5°	404.1	405.1	406.3	406.6	408.1	410.1	411.0	413.4	418.1	421.6	421.9
170°	408.3	409.3	410.5	410.8	410.9	410.9	411.0	413.4	418.1	421.6	421.6
172.5°	410.5	410.8	410.9	411.0	411.0	411.0	411.0	412.9	416.6	419.4	419.2
175°	413.5	413.5	413.5	413.5	412.7	411.6	411.0	412.2	414.5	416.3	416.3
177.5°	413.5	413.5	413.5	413.5	412.9	412.0	411.6	412.5	414.4	415.8	415.5
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	970.7	968.0	970.7	968.9	969.8	967.1	959.1	956.4	959.1	961.7	961.7
5°	982.3	980.5	982.3	982.3	981.4	979.7	970.7	968.9	970.7	971.6	969.8
7.5°	985.9	983.2	985.9	984.1	984.1	982.3	973.4	971.6	972.5	975.2	972.5
10°	985.9	983.2	985.9	985.0	984.1	982.3	973.4	969.8	969.8	972.5	969.8
12.5°	981.4	979.7	981.4	979.7	979.7	977.9	968.9	965.3	966.2	967.1	963.5
15°	974.3	971.6	974.3	972.5	973.4	970.7	960.8	957.3	957.3	959.1	952.7
17.5°	963.5	960.0	963.5	962.6	961.7	960.0	950.9	947.3	946.4	947.3	942.9
20°	950.9	948.2	950.9	950.0	950.0	946.4	937.5	933.0	933.0	933.0	928.5
22.5°	931.2	928.5	931.2	933.0	933.0	932.1	924.1	917.8	916.0	916.0	910.6
25°	908.8	906.1	908.8	908.8	907.9	908.8	906.1	902.6	899.9	897.2	891.8
27.5°	887.3	885.6	887.3	885.6	887.3	884.7	883.8	882.9	879.3	876.6	869.4
30°	865.9	864.1	865.9	864.1	862.3	860.5	856.0	854.2	857.8	856.0	844.4
32.5°	839.0	837.2	839.0	839.0	837.2	837.2	830.0	827.4	828.3	833.6	822.9
35°	811.2	808.6	811.2	810.3	811.2	808.6	804.1	803.2	799.6	805.9	797.8
37.5°	779.0	776.3	779.0	779.0	779.0	780.8	777.2	774.5	769.2	777.2	771.0
40°	745.9	742.3	745.9	745.0	745.9	747.7	745.9	744.1	738.7	745.0	739.6
42.5°	708.3	707.4	708.3	709.2	709.2	712.8	715.4	711.9	710.1	705.6	709.2
45°	668.0	666.2	668.0	669.8	670.7	672.5	680.5	680.5	677.8	670.7	676.1
47.5°	625.0	620.5	625.0	630.4	630.4	633.1	641.1	647.4	642.9	634.0	636.7
50°	579.4	580.3	579.4	582.9	582.9	592.8	599.1	605.3	609.8	599.1	586.5
52.5°	534.6	533.7	534.6	537.3	540.9	545.3	556.1	562.3	569.5	563.2	543.5
55°	489.8	491.6	489.8	490.7	492.5	495.2	511.3	517.6	531.0	523.0	502.4
57.5°	445.1	442.4	445.1	446.9	447.7	450.4	463.9	475.5	483.6	484.5	459.4
60°	393.1	389.6	393.1	401.2	403.0	404.8	417.3	428.0	435.2	437.9	411.9
62.5°	347.5	341.2	347.5	352.8	356.4	360.9	369.9	386.0	392.2	393.1	356.4
65°	299.0	296.3	299.0	309.8	310.7	316.0	326.0	337.6	351.1	349.3	296.3
67.5°	255.2	255.2	255.2	262.3	267.7	270.4	282.9	288.3	305.3	307.1	247.1
70°	214.9	214.0	214.9	220.2	223.8	230.1	241.7	248.0	261.4	265.9	200.5
72.5°	176.4	175.5	176.4	180.9	184.4	189.8	199.7	206.8	218.5	223.8	155.8
75°	142.4	140.6	142.4	145.9	145.0	152.2	160.3	167.4	178.2	181.7	115.5
77.5°	109.2	109.2	109.2	112.8	112.8	120.0	123.6	132.5	138.8	144.1	85.1
80°	81.5	80.6	81.5	82.4	82.4	85.9	92.2	98.5	103.9	103.9	58.2
82.5°	57.3	55.5	57.3	57.3	57.3	59.1	62.7	64.5	68.0	70.7	36.7
85°	35.8	35.8	35.8	36.7	35.8	37.6	38.5	40.3	40.3	38.5	22.4
87.5°	23.3	22.4	23.3	22.4	22.4	21.5	21.5	21.5	20.6	19.7	12.5
90°	10.6	10.6	10.6	10.6	10.6	14.1	18.8	21.1	18.2	12.3	7.8
92.5°	42.3	33.8	42.3	50.7	52.7	74.8	104.1	118.8	104.3	75.3	53.5
95°	147.3	121.9	147.3	172.6	179.0	235.0	309.8	347.2	293.2	185.3	104.4
97.5°	352.8	304.5	352.8	401.2	413.3	448.7	495.9	519.5	429.6	249.6	114.6
100°	508.4	450.7	508.4	565.9	580.3	577.7	574.3	572.6	472.7	273.0	123.2
102.5°	661.3	611.9	661.3	710.6	723.0	677.8	617.7	587.6	486.3	283.7	131.8
105°	856.4	829.9	856.4	882.9	889.5	788.3	653.4	585.9	487.9	291.7	144.6
107.5°	984.1	990.6	984.1	977.7	976.1	834.9	646.7	552.6	466.1	293.2	163.5
110°	1032.8	1060.5	1032.8	1005.2	998.3	840.4	630.0	524.8	446.9	291.0	174.0



TEST NUMBER: P934758

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1037.2	1079.7	1037.2	994.8	984.1	822.6	607.3	499.6	430.1	291.1	186.8
115°	1009.7	1068.6	1009.7	950.8	936.1	780.5	573.1	469.3	410.8	293.8	205.9
117.5°	951.4	1016.6	951.4	886.1	869.8	729.3	542.1	448.5	398.7	299.2	224.5
120°	904.4	967.7	904.4	841.0	825.1	696.8	525.7	440.1	394.7	303.6	235.4
122.5°	858.6	921.2	858.6	796.1	780.4	664.9	510.8	433.8	392.5	310.0	248.1
125°	793.3	850.9	793.3	735.8	721.4	623.2	492.3	426.9	390.8	318.6	264.5
127.5°	734.6	783.2	734.6	686.1	673.9	589.7	477.3	421.1	389.8	327.2	280.3
130°	700.0	744.9	700.0	655.1	643.9	568.9	468.9	418.8	390.4	333.5	290.9
132.5°	668.6	708.8	668.6	628.4	618.4	551.2	461.6	416.9	390.8	338.6	299.5
135°	625.6	660.3	625.6	591.0	582.3	526.1	451.1	413.5	390.4	344.2	309.4
137.5°	591.1	619.5	591.1	562.7	555.6	508.1	444.7	413.0	392.9	352.5	322.2
140°	567.4	593.9	567.4	540.9	534.2	493.1	438.4	411.0	393.2	357.6	330.8
142.5°	547.8	570.6	547.8	525.0	519.3	483.2	435.1	411.0	394.7	361.8	337.2
145°	518.4	535.7	518.4	501.1	496.8	467.3	428.0	408.3	394.7	367.3	346.9
147.5°	495.8	510.1	495.8	481.5	477.9	454.7	423.8	408.3	397.3	375.5	359.1
150°	481.6	493.2	481.6	469.9	467.1	447.5	421.3	408.3	398.8	379.8	365.6
152.5°	469.4	478.2	469.4	460.6	458.5	441.7	419.5	408.3	399.7	382.6	369.7
155°	455.4	461.3	455.4	449.6	448.2	434.9	417.1	408.3	401.7	388.7	378.8
157.5°	444.4	448.5	444.4	440.3	439.3	428.9	415.2	408.3	403.8	394.7	388.0
160°	437.8	440.1	437.8	435.5	434.9	426.1	414.2	408.3	404.7	397.5	392.1
162.5°	433.5	435.7	433.5	431.3	430.7	423.2	413.3	408.3	405.7	400.5	396.6
165°	427.3	429.7	427.3	425.0	424.4	419.0	411.8	408.3	407.1	404.8	403.0
167.5°	422.9	423.8	422.9	421.9	421.6	418.1	413.4	411.0	410.1	408.1	406.6
170°	421.6	421.6	421.6	421.6	421.6	418.1	413.4	411.0	410.9	410.9	410.8
172.5°	418.3	417.4	418.3	419.2	419.4	416.6	412.9	411.0	411.0	411.0	411.0
175°	416.3	416.3	416.3	416.3	416.3	414.5	412.2	411.0	411.6	412.7	413.5
177.5°	414.5	413.5	414.5	415.5	415.8	414.4	412.5	411.6	412.0	412.9	413.5
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934758

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	960.0	954.5	954.5	945.5	942.0	939.3	934.8	921.4	917.8	914.2	919.6
5°	968.0	958.2	950.9	934.8	921.4	916.0	899.0	866.8	845.3	829.1	820.2
7.5°	969.8	957.3	943.7	918.7	886.4	872.1	820.2	761.1	745.0	730.7	721.7
10°	968.0	953.6	934.8	897.2	821.1	796.0	744.1	705.6	695.7	693.1	695.7
12.5°	961.7	948.2	922.3	859.6	753.0	736.0	705.6	683.2	681.4	685.9	710.1
15°	950.9	938.4	907.9	809.5	715.4	702.9	681.4	673.4	683.2	714.5	787.1
17.5°	940.2	925.8	888.2	760.2	686.8	677.8	662.6	678.7	734.2	776.3	800.5
20°	925.8	908.8	865.9	724.4	666.2	658.1	651.0	723.5	765.6	780.8	794.2
22.5°	908.8	890.9	835.4	699.3	644.7	638.4	642.9	748.6	765.6	776.3	788.0
25°	886.4	871.2	799.6	679.6	627.7	620.5	637.6	745.9	755.7	758.4	781.7
27.5°	865.9	846.2	762.0	661.7	607.1	604.4	642.0	734.2	741.4	744.1	769.2
30°	840.8	811.2	719.9	642.9	585.6	584.7	642.9	719.9	718.1	725.3	750.4
32.5°	814.8	759.3	672.5	619.6	565.0	564.1	636.7	698.4	696.6	706.5	725.3
35°	790.7	719.0	608.0	592.8	539.1	540.0	621.4	673.4	674.3	683.2	694.9
37.5°	765.6	684.1	537.3	563.2	514.0	514.0	600.8	650.1	648.3	651.0	667.1
40°	736.0	629.5	474.6	524.7	490.7	488.0	575.8	625.0	618.8	617.9	640.2
42.5°	704.7	569.5	428.0	473.7	463.9	460.3	545.3	594.6	582.9	585.6	614.3
45°	670.7	553.4	392.2	400.3	436.1	433.4	512.2	559.7	551.6	558.8	588.3
47.5°	636.7	521.2	380.6	332.3	406.6	405.7	475.5	525.6	521.2	528.3	559.7
50°	590.1	485.3	379.7	284.7	373.4	377.0	431.6	492.5	492.5	498.8	531.9
52.5°	530.1	441.5	344.8	257.8	334.9	345.7	393.1	463.9	465.7	471.9	501.5
55°	475.5	395.8	319.7	237.3	289.2	312.5	355.5	434.3	437.9	444.2	471.0
57.5°	425.4	329.6	314.3	213.1	247.1	269.5	322.4	405.7	407.5	412.8	438.8
60°	371.6	238.2	288.3	187.1	210.4	227.4	291.9	371.6	377.9	381.5	403.9
62.5°	310.7	172.8	261.4	169.2	192.5	196.1	266.8	339.4	347.5	350.2	363.6
65°	221.1	145.0	222.0	154.0	173.7	174.6	239.9	306.2	313.4	317.8	327.8
67.5°	149.5	118.2	169.2	139.7	159.4	160.3	214.0	267.7	277.5	281.1	287.4
70°	103.9	78.8	125.3	124.4	143.2	145.0	186.2	232.8	241.7	244.4	248.0
72.5°	76.1	63.6	103.9	111.9	126.2	128.0	157.6	193.4	202.3	205.0	206.8
75°	58.2	67.1	84.2	97.6	107.4	108.3	128.9	157.6	163.8	165.6	166.5
77.5°	46.6	62.7	61.8	78.8	87.7	85.9	101.2	121.8	127.1	127.1	127.1
80°	34.9	49.2	46.6	56.4	64.5	62.7	72.5	86.8	88.6	90.4	89.5
82.5°	26.0	31.3	31.3	35.8	43.0	41.2	48.3	56.4	56.4	56.4	58.2
85°	16.1	17.9	14.3	18.8	24.2	23.3	26.9	30.4	31.3	31.3	29.5
87.5°	9.8	8.1	4.5	7.2	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	7.3	5.0	2.8	5.0	7.3	7.8	12.3	18.2	21.1	18.8	14.1
92.5°	48.8	30.0	11.1	30.0	48.8	53.5	75.3	104.3	118.8	104.1	74.8
95°	95.8	61.2	26.7	61.2	95.8	104.4	185.3	293.2	347.2	309.8	235.0
97.5°	107.0	76.5	46.1	76.5	107.0	114.6	249.6	429.6	519.5	495.9	448.7
100°	116.3	88.6	61.1	88.6	116.3	123.2	273.0	472.7	572.6	574.3	577.7
102.5°	125.3	99.6	73.9	99.6	125.3	131.8	283.7	486.3	587.6	617.7	677.8
105°	139.1	117.3	95.4	117.3	139.1	144.6	291.7	487.9	585.9	653.4	788.3
107.5°	158.4	138.1	117.6	138.1	158.4	163.5	293.2	466.1	552.6	646.7	834.9
110°	169.5	151.0	132.7	151.0	169.5	174.0	291.0	446.9	524.8	630.0	840.4



TEST NUMBER: P934758

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	182.4	164.9	147.4	164.9	182.4	186.8	291.1	430.1	499.6	607.3	822.6
115°	201.9	185.7	169.6	185.7	201.9	205.9	293.8	410.8	469.3	573.1	780.5
117.5°	220.9	206.2	191.5	206.2	220.9	224.5	299.2	398.7	448.5	542.1	729.3
120°	231.9	218.1	204.3	218.1	231.9	235.4	303.6	394.7	440.1	525.7	696.8
122.5°	244.6	230.7	216.8	230.7	244.6	248.1	310.0	392.5	433.8	510.8	664.9
125°	261.3	248.6	235.9	248.6	261.3	264.5	318.6	390.8	426.9	492.3	623.2
127.5°	277.1	264.3	251.5	264.3	277.1	280.3	327.2	389.8	421.1	477.3	589.7
130°	287.4	273.6	259.8	273.6	287.4	290.9	333.5	390.4	418.8	468.9	568.9
132.5°	296.0	282.2	268.4	282.2	296.0	299.5	338.6	390.8	416.9	461.6	551.2
135°	306.3	293.7	281.1	293.7	306.3	309.4	344.2	390.4	413.5	451.1	526.1
137.5°	319.1	306.6	294.2	306.6	319.1	322.2	352.5	392.9	413.0	444.7	508.1
140°	328.0	316.5	305.0	316.5	328.0	330.8	357.6	393.2	411.0	438.4	493.1
142.5°	334.5	323.9	313.4	323.9	334.5	337.2	361.8	394.7	411.0	435.1	483.2
145°	344.6	335.4	326.1	335.4	344.6	346.9	367.3	394.7	408.3	428.0	467.3
147.5°	356.9	347.8	338.9	347.8	356.9	359.1	375.5	397.3	408.3	423.8	454.7
150°	363.5	355.3	347.2	355.3	363.5	365.6	379.8	398.8	408.3	421.3	447.5
152.5°	368.2	362.0	355.8	362.0	368.2	369.7	382.6	399.7	408.3	419.5	441.7
155°	377.6	373.2	368.6	373.2	377.6	378.8	388.7	401.7	408.3	417.1	434.9
157.5°	387.0	382.5	378.0	382.5	387.0	388.0	394.7	403.8	408.3	415.2	428.9
160°	391.3	387.8	384.4	387.8	391.3	392.1	397.5	404.7	408.3	414.2	426.1
162.5°	396.0	393.4	390.8	393.4	396.0	396.6	400.5	405.7	408.3	413.3	423.2
165°	402.4	400.0	397.7	400.0	402.4	403.0	404.8	407.1	408.3	411.8	419.0
167.5°	406.3	405.1	404.1	405.1	406.3	406.6	408.1	410.1	411.0	413.4	418.1
170°	410.5	409.3	408.3	409.3	410.5	410.8	410.9	410.9	411.0	413.4	418.1
172.5°	410.9	410.8	410.5	410.8	410.9	411.0	411.0	411.0	411.0	412.9	416.6
175°	413.5	413.5	413.5	413.5	413.5	413.5	412.7	411.6	411.0	412.2	414.5
177.5°	413.5	413.5	413.5	413.5	413.5	413.5	412.9	412.0	411.6	412.5	414.4
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934758

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4	946.4
2.5°	913.3	910.6	914.2	904.4	914.2	910.6	913.3	919.6	914.2	917.8	921.4
5°	801.4	796.9	782.6	771.0	782.6	796.9	801.4	820.2	829.1	845.3	866.8
7.5°	716.3	712.8	709.2	702.0	709.2	712.8	716.3	721.7	730.7	745.0	761.1
10°	697.5	698.4	703.8	702.9	703.8	698.4	697.5	695.7	693.1	695.7	705.6
12.5°	745.9	753.9	783.5	781.7	783.5	753.9	745.9	710.1	685.9	681.4	683.2
15°	801.4	804.1	810.3	811.2	810.3	804.1	801.4	787.1	714.5	683.2	673.4
17.5°	806.8	807.7	812.1	812.1	812.1	807.7	806.8	800.5	776.3	734.2	678.7
20°	802.3	804.1	813.0	814.8	813.0	804.1	802.3	794.2	780.8	765.6	723.5
22.5°	800.5	804.1	811.2	810.3	811.2	804.1	800.5	788.0	776.3	765.6	748.6
25°	791.5	791.5	792.4	793.3	792.4	791.5	791.5	781.7	758.4	755.7	745.9
27.5°	772.7	774.5	779.9	779.0	779.9	774.5	772.7	769.2	744.1	741.4	734.2
30°	755.7	753.9	749.5	745.9	749.5	753.9	755.7	750.4	725.3	718.1	719.9
32.5°	727.1	722.6	718.1	715.4	718.1	722.6	727.1	725.3	706.5	696.6	698.4
35°	693.1	694.0	693.1	690.4	693.1	694.0	693.1	694.9	683.2	674.3	673.4
37.5°	668.9	670.7	669.8	666.2	669.8	670.7	668.9	667.1	651.0	648.3	650.1
40°	643.8	644.7	643.8	641.1	643.8	644.7	643.8	640.2	617.9	618.8	625.0
42.5°	619.6	618.8	616.1	614.3	616.1	618.8	619.6	614.3	585.6	582.9	594.6
45°	591.9	592.8	587.4	584.7	587.4	592.8	591.9	588.3	558.8	551.6	559.7
47.5°	564.1	564.1	559.7	557.0	559.7	564.1	564.1	559.7	528.3	521.2	525.6
50°	534.6	533.7	527.4	526.5	527.4	533.7	534.6	531.9	498.8	492.5	492.5
52.5°	500.6	500.6	501.5	503.3	501.5	500.6	500.6	501.5	471.9	465.7	463.9
55°	471.0	471.9	478.2	480.0	478.2	471.9	471.0	471.0	444.2	437.9	434.3
57.5°	440.6	440.6	445.1	445.1	445.1	440.6	440.6	438.8	412.8	407.5	405.7
60°	405.7	407.5	411.0	410.1	411.0	407.5	405.7	403.9	381.5	377.9	371.6
62.5°	369.0	370.7	371.6	369.9	371.6	370.7	369.0	363.6	350.2	347.5	339.4
65°	330.5	332.3	333.1	331.4	333.1	332.3	330.5	327.8	317.8	313.4	306.2
67.5°	291.0	290.1	289.2	292.8	289.2	290.1	291.0	287.4	281.1	277.5	267.7
70°	250.7	250.7	249.8	251.6	249.8	250.7	250.7	248.0	244.4	241.7	232.8
72.5°	207.7	206.8	210.4	207.7	210.4	206.8	207.7	206.8	205.0	202.3	193.4
75°	165.6	167.4	165.6	168.3	165.6	167.4	165.6	166.5	165.6	163.8	157.6
77.5°	126.2	128.0	126.2	126.2	126.2	128.0	126.2	127.1	127.1	127.1	121.8
80°	89.5	88.6	88.6	87.7	88.6	88.6	89.5	89.5	90.4	88.6	86.8
82.5°	57.3	56.4	56.4	58.2	56.4	56.4	57.3	58.2	56.4	56.4	56.4
85°	31.3	32.2	30.4	30.4	30.4	32.2	31.3	29.5	31.3	31.3	30.4
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	14.1	18.8	21.1	18.2
92.5°	52.7	50.7	42.3	33.8	42.3	50.7	52.7	74.8	104.1	118.8	104.3
95°	179.0	172.6	147.3	121.9	147.3	172.6	179.0	235.0	309.8	347.2	293.2
97.5°	413.3	401.2	352.8	304.5	352.8	401.2	413.3	448.7	495.9	519.5	429.6
100°	580.3	565.9	508.4	450.7	508.4	565.9	580.3	577.7	574.3	572.6	472.7
102.5°	723.0	710.6	661.3	611.9	661.3	710.6	723.0	677.8	617.7	587.6	486.3
105°	889.5	882.9	856.4	829.9	856.4	882.9	889.5	788.3	653.4	585.9	487.9
107.5°	976.1	977.7	984.1	990.6	984.1	977.7	976.1	834.9	646.7	552.6	466.1
110°	998.3	1005.2	1032.8	1060.5	1032.8	1005.2	998.3	840.4	630.0	524.8	446.9



TEST NUMBER: P934758

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	984.1	994.8	1037.2	1079.7	1037.2	994.8	984.1	822.6	607.3	499.6	430.1
115°	936.1	950.8	1009.7	1068.6	1009.7	950.8	936.1	780.5	573.1	469.3	410.8
117.5°	869.8	886.1	951.4	1016.6	951.4	886.1	869.8	729.3	542.1	448.5	398.7
120°	825.1	841.0	904.4	967.7	904.4	841.0	825.1	696.8	525.7	440.1	394.7
122.5°	780.4	796.1	858.6	921.2	858.6	796.1	780.4	664.9	510.8	433.8	392.5
125°	721.4	735.8	793.3	850.9	793.3	735.8	721.4	623.2	492.3	426.9	390.8
127.5°	673.9	686.1	734.6	783.2	734.6	686.1	673.9	589.7	477.3	421.1	389.8
130°	643.9	655.1	700.0	744.9	700.0	655.1	643.9	568.9	468.9	418.8	390.4
132.5°	618.4	628.4	668.6	708.8	668.6	628.4	618.4	551.2	461.6	416.9	390.8
135°	582.3	591.0	625.6	660.3	625.6	591.0	582.3	526.1	451.1	413.5	390.4
137.5°	555.6	562.7	591.1	619.5	591.1	562.7	555.6	508.1	444.7	413.0	392.9
140°	534.2	540.9	567.4	593.9	567.4	540.9	534.2	493.1	438.4	411.0	393.2
142.5°	519.3	525.0	547.8	570.6	547.8	525.0	519.3	483.2	435.1	411.0	394.7
145°	496.8	501.1	518.4	535.7	518.4	501.1	496.8	467.3	428.0	408.3	394.7
147.5°	477.9	481.5	495.8	510.1	495.8	481.5	477.9	454.7	423.8	408.3	397.3
150°	467.1	469.9	481.6	493.2	481.6	469.9	467.1	447.5	421.3	408.3	398.8
152.5°	458.5	460.6	469.4	478.2	469.4	460.6	458.5	441.7	419.5	408.3	399.7
155°	448.2	449.6	455.4	461.3	455.4	449.6	448.2	434.9	417.1	408.3	401.7
157.5°	439.3	440.3	444.4	448.5	444.4	440.3	439.3	428.9	415.2	408.3	403.8
160°	434.9	435.5	437.8	440.1	437.8	435.5	434.9	426.1	414.2	408.3	404.7
162.5°	430.7	431.3	433.5	435.7	433.5	431.3	430.7	423.2	413.3	408.3	405.7
165°	424.4	425.0	427.3	429.7	427.3	425.0	424.4	419.0	411.8	408.3	407.1
167.5°	421.6	421.9	422.9	423.8	422.9	421.9	421.6	418.1	413.4	411.0	410.1
170°	421.6	421.6	421.6	421.6	421.6	421.6	421.6	418.1	413.4	411.0	410.9
172.5°	419.4	419.2	418.3	417.4	418.3	419.2	419.4	416.6	412.9	411.0	411.0
175°	416.3	416.3	416.3	416.3	416.3	416.3	416.3	414.5	412.2	411.0	411.6
177.5°	415.8	415.5	414.5	413.5	414.5	415.5	415.8	414.4	412.5	411.6	412.0
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934758

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	946.4	946.4	946.4	946.4	946.4
2.5°	934.8	939.3	942.0	945.5	954.5
5°	899.0	916.0	921.4	934.8	950.9
7.5°	820.2	872.1	886.4	918.7	943.7
10°	744.1	796.0	821.1	897.2	934.8
12.5°	705.6	736.0	753.0	859.6	922.3
15°	681.4	702.9	715.4	809.5	907.9
17.5°	662.6	677.8	686.8	760.2	888.2
20°	651.0	658.1	666.2	724.4	865.9
22.5°	642.9	638.4	644.7	699.3	835.4
25°	637.6	620.5	627.7	679.6	799.6
27.5°	642.0	604.4	607.1	661.7	762.0
30°	642.9	584.7	585.6	642.9	719.9
32.5°	636.7	564.1	565.0	619.6	672.5
35°	621.4	540.0	539.1	592.8	608.0
37.5°	600.8	514.0	514.0	563.2	537.3
40°	575.8	488.0	490.7	524.7	474.6
42.5°	545.3	460.3	463.9	473.7	428.0
45°	512.2	433.4	436.1	400.3	392.2
47.5°	475.5	405.7	406.6	332.3	380.6
50°	431.6	377.0	373.4	284.7	379.7
52.5°	393.1	345.7	334.9	257.8	344.8
55°	355.5	312.5	289.2	237.3	319.7
57.5°	322.4	269.5	247.1	213.1	314.3
60°	291.9	227.4	210.4	187.1	288.3
62.5°	266.8	196.1	192.5	169.2	261.4
65°	239.9	174.6	173.7	154.0	222.0
67.5°	214.0	160.3	159.4	139.7	169.2
70°	186.2	145.0	143.2	124.4	125.3
72.5°	157.6	128.0	126.2	111.9	103.9
75°	128.9	108.3	107.4	97.6	84.2
77.5°	101.2	85.9	87.7	78.8	61.8
80°	72.5	62.7	64.5	56.4	46.6
82.5°	48.3	41.2	43.0	35.8	31.3
85°	26.9	23.3	24.2	18.8	14.3
87.5°	12.5	10.7	10.7	7.2	4.5
90°	12.3	7.8	7.3	5.0	2.8
92.5°	75.3	53.5	48.8	30.0	11.1
95°	185.3	104.4	95.8	61.2	26.7
97.5°	249.6	114.6	107.0	76.5	46.1
100°	273.0	123.2	116.3	88.6	61.1
102.5°	283.7	131.8	125.3	99.6	73.9
105°	291.7	144.6	139.1	117.3	95.4
107.5°	293.2	163.5	158.4	138.1	117.6
110°	291.0	174.0	169.5	151.0	132.7



TEST NUMBER: P934758

CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	291.1	186.8	182.4	164.9	147.4
115°	293.8	205.9	201.9	185.7	169.6
117.5°	299.2	224.5	220.9	206.2	191.5
120°	303.6	235.4	231.9	218.1	204.3
122.5°	310.0	248.1	244.6	230.7	216.8
125°	318.6	264.5	261.3	248.6	235.9
127.5°	327.2	280.3	277.1	264.3	251.5
130°	333.5	290.9	287.4	273.6	259.8
132.5°	338.6	299.5	296.0	282.2	268.4
135°	344.2	309.4	306.3	293.7	281.1
137.5°	352.5	322.2	319.1	306.6	294.2
140°	357.6	330.8	328.0	316.5	305.0
142.5°	361.8	337.2	334.5	323.9	313.4
145°	367.3	346.9	344.6	335.4	326.1
147.5°	375.5	359.1	356.9	347.8	338.9
150°	379.8	365.6	363.5	355.3	347.2
152.5°	382.6	369.7	368.2	362.0	355.8
155°	388.7	378.8	377.6	373.2	368.6
157.5°	394.7	388.0	387.0	382.5	378.0
160°	397.5	392.1	391.3	387.8	384.4
162.5°	400.5	396.6	396.0	393.4	390.8
165°	404.8	403.0	402.4	400.0	397.7
167.5°	408.1	406.6	406.3	405.1	404.1
170°	410.9	410.8	410.5	409.3	408.3
172.5°	411.0	411.0	410.9	410.8	410.5
175°	412.7	413.5	413.5	413.5	413.5
177.5°	412.9	413.5	413.5	413.5	413.5
180°	413.5	413.5	413.5	413.5	413.5



TEST NUMBER: P934758
 CATALOG NUMBER: SQ4-FA-075U-075D-93050-1D-UNV-STD-W-4-3500K

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.14	12.98	13.11	13.97	15.27	14.93	15.78	15.91	16.77	18.07
	3H	12.61	13.37	13.60	14.36	15.69	16.27	17.02	17.25	18.02	19.34
	4H	12.80	13.52	13.80	14.52	15.85	16.70	17.42	17.71	18.42	19.75
	6H	12.92	13.58	13.93	14.58	15.93	16.98	17.64	17.99	18.65	19.99
	8H	12.92	13.55	13.94	14.57	15.91	17.05	17.68	18.07	18.70	20.04
	12H	12.89	13.49	13.91	14.50	15.87	17.08	17.68	18.11	18.70	20.06
4H	2H	13.16	13.87	14.17	14.88	16.21	15.34	16.06	16.35	17.06	18.39
	3H	14.18	14.78	15.20	15.81	17.15	16.84	17.43	17.85	18.46	19.81
	4H	14.46	15.00	15.48	16.03	17.39	17.36	17.90	18.38	18.92	20.29
	6H	14.58	15.05	15.62	16.10	17.46	17.71	18.18	18.75	19.23	20.59
	8H	14.59	15.03	15.62	16.07	17.45	17.81	18.25	18.85	19.29	20.67
	12H	14.55	14.95	15.61	16.00	17.39	17.87	18.26	18.92	19.31	20.70
8H	4H	14.91	15.34	15.94	16.38	17.76	17.48	17.92	18.52	18.96	20.34
	6H	15.17	15.53	16.23	16.61	17.99	17.91	18.27	18.97	19.35	20.73
	8H	15.21	15.53	16.28	16.59	17.99	18.06	18.37	19.12	19.44	20.84
	12H	15.19	15.47	16.26	16.53	17.97	18.15	18.43	19.22	19.49	20.93
12H	4H	14.91	15.30	15.96	16.36	17.74	17.44	17.84	18.50	18.89	20.28
	6H	15.23	15.54	16.29	16.61	18.01	17.91	18.22	18.97	19.29	20.69
	8H	15.29	15.57	16.36	16.63	18.07	18.06	18.34	19.13	19.40	20.84